

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ICUMM.127C1	APPLICATION NO. Unknown 10/636,163
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Thomas F. Fangrow, Jr.	
		FILING DATE Herewith	GROUP Unknown 3748

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
P5	1.	Des. 321,250	10/29/91	Jepson et al.	—	—	—
	2.	Des. 321,251	10/29/91	Jepson et al.			
	3.	1,578,517	3/30/26	G.N. Hein			
	4.	2,210,098	08/06/40	E.A. Ravenscroft			
	5.	2,289,677	7/14/42	H.N. Parelson			
	6.	2,847,995	8/19/58	J.Q. Adams			
	7.	2,999,499	09/12/61	R.H. Willet			
	8.	3,134,380	5/26/64	Thomas A. Armao			
	9.	3,135,261	6/2/64	Alfred J. Carroll			
	10.	3,354,881	11/28/67	Herman S. Bloch			
	11.	3,502,097	03/24/70	W. F. Muller			
	12.	3,630,199	12/28/71	Gangarosa			
	13.	3,648,684	3/14/72	Barnwell et al.			
	14.	3,659,602	05/02/72	Cloyd			
	15.	3,788,519	01/29/74	Mengel			
	16.	3,831,629	08/27/74	Mackal et al.			
	17.	3,852,385	12/3/74	Huggins			
	18.	3,861,388	01/21/75	Vaughn			
	19.	3,974,832	8/17/76	Kruck			
	20.	3,976,063	8/24/76	Henneman et al.			
	21.	3,976,073	8/24/76	Quick et al.			
	22.	3,986,508	10/19/76	Barrington			
	23.	3,993,063	11/23/76	Larrabee			
	24.	3,994,293	11/30/76	Ferro			
	25.	4,005,710	02/01/77	Zeddies, et al.			
✓	26.	4,019,512	4/26/77	Tenczar	✓	✓	✓

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PS	27.	4,022,205	05/10/77	Tenczar			
	28.	4,040,240	08/09/77	Speer			
	29.	4,076,285	2/28/78	Martinez			
	30.	4,079,738	3/21/78	Dunn et al.			
	31.	4,080,965	3/28/78	Phillips			
	32.	4,121,585	10/24/78	Becker, Jr.			
	33.	4,128,098	12/5/78	Bloom et al.			
	34.	4,143,853	03/79	Abramson			
	35.	4,149,535	04/17/79	Volder			
	36.	4,161,949	7/24/79	Thanawalla			
	37.	4,187,846	2/12/80	Lolachi et al.			
	38.	4,191,183	03/04/80	Mendelson			
	39.	4,214,779	7/29/80	Losell			
	40.	4,219,912	9/2/80	Adams			
	41.	4,243,034	01/06/81	Brandt			
	42.	4,257,416	03/24/81	Prager			
	43.	4,294,249	10/13/81	Sheehan et al.			
	44.	4,296,949	10/27/81	Muetterties et al.			
	45.	4,306,705	12/22/81	Svensson			
	46.	4,328,802	5/11/82	Curley et al.			
	47.	4,329,987	5/18/82	Rogers et al.			
	48.	4,334,551	6/15/82	Pfister			
	49.	4,338,933	7/13/82	Bayard et al.			
	50.	4,382,156	12/7/82	Feller, Jr. et al.			
	51.	4,392,851	07/12/83	Elias			
	52.	4,405,163	09/20/83	Voges, et al.			
✓	53.	4,405,312	09/20/83	Gross, et al.			

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B5	54.	4,411,662	10/25/83	Pearson			
	55.	4,417,890	11/29/83	Dennehey et al.			
	56.	4,432,759	2/21/84	Gross et al.			
	57.	4,432,765	2/21/84	Oscarsson			
	58.	4,439,188	3/27/84	Dennehey et al.			
	59.	4,439,193	3/27/84	Larkin			
	60.	4,457,749	7/3/84	Bellotti et al.			
	61.	4,508,367	4/2/85	Oreopoulos et al.			
	62.	4,511,359	4/16/85	Vaillancourt			
	63.	4,512,766	4/23/85	Vaillancourt			
	64.	4,564,054	1/14/86	Gustavsson			
	65.	4,592,356	6/3/86	Gutierrez			
	66.	4,607,868	08/26/86	Harvey, et al.			
	67.	4,610,469	9/9/86	Wolf-Moolj			
	68.	4,617,012	10/14/86	Vaillancourt			
	69.	4,623,088	11/18/86	Brown et al.			
	70.	4,645,494	2/24/87	Lee et al.			
	71.	4,673,400	6/16/87	Martin			
	72.	4,706,487	11/17/87	Bandou et al.			
	73.	4,725,287	2/16/88	Vaillancourt			
	74.	4,752,292	6/21/88	Lopez et al.			
	75.	4,759,756	07/28/88	Forman, et al.			
	76.	4,775,369	10/4/88	Schwartz			
	77.	4,781,702	11/1/88	Henli			
	78.	4,804,015	02/14/89	Albinsson			
	79.	4,810,241	3/7/89	Rogers			
✓	80.	4,813,936	03/21/89	Raulerson			

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B5	81.	4,832,214	5/23/89	Schrader et al.			
	82.	4,834,664	5/30/89	Lin			
	83.	4,834,718	05/30/89	Ogle, II			
	84.	4,874,377	10/17/89	Newgard et al.			
	85.	4,878,897	11/7/89	Katzin			
	86.	4,928,212	5/22/90	Benavides			
	87.	4,943,896	7/24/90	Johnson			
	88.	4,946,445	08/07/90	Lynn			
	89.	4,984,855	10/23/90	Todd, et al.			
	90.	4,969,883	11/13/90	Gilbert et al.			
	91.	4,998,713	3/12/91	Vaillancourt			
	92.	4,988,927	03/12/91	Vaillancourt			
	93.	5,009,490	4/23/91	Kuono et al.			
	94.	5,018,532	5/28/91	Ethridge, III			
	95.	5,046,456	9/10/91	Heyman et al.			
	96.	5,064,416	11/12/91	Newgard			
	97.	5,065,783	11/19/91	Ogle, II			
	98.	5,100,394	03/31/92	Dudar et al.			
	99.	5,122,123	06/16/92	Vaillancourt			
	100.	5,135,489	08/04/92	Jepson et al.			
	101.	5,154,703	10/13/92	Bonaldo			
	102.	5,158,554	10/27/92	Jepson et al.			
	103.	5,171,234	12/15/92	Jepson et al.			
	104.	5,188,620	2/23/93	Jepson et al.			
	105.	5,199,947	04/06/93	Lopez, et al.			
	106.	5,201,717	04/13/93	Wyatt et al.			
✓	107.	5,203,775	04/20/93	Frank et al.			

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BS	108.	5,211,638	5/18/93	Dudar et al.			
	109.	5,242,432	09/07/93	DeFrank			
	110.	5,256,155	10/26/93	Yerlikaya et al.			
	111.	5,269,771	12/14/93	Thomas et al.			
	112.	5,273,533	12/28/93	Bonaldo			
	113.	5,290,254	3/1/94	Vaillancourt			
	114.	5,344,414	9/6/94	Lopez et al.			
	115.	5,401,245	3/28/95	Haining			
	116.	5,411,499	5/2/95	Dudar et al.			
	117.	5,470,319	11/26/95	Mayer			
	118.	5,487,731	1/30/96	Denton			
	119.	5,533,708	07/96	Atkinson et al.			
	120.	5,549,566	8/27/96	Elias et al.			
	121.	5,549,651	08/96	Lynn			
	122.	5,556,388	9/17/96	Johlin, Jr.			
	123.	5,676,346	10/14/97	Leinsing			
	124.	5,685,866	11/11/97	Lopez			
	125.	5,690,612	11/25/97	Lopez et al.			
	126.	5,694,686	12/9/97	Lopez			
	127.	5,695,486	12/9/97	Lopez et al.			
	128.	5,699,821	12/23/97	Paradis			
	129.	5,700,248	12/97	Lopez			
	130.	5,738,683	4/14/98	Lopez			
	131.	5,797,897	08/98	Jepson et al.			
	132.	5,700,248	12/23/97	Lopez			
	133.	5,873,882	02/23/99	Lopez			
	134.	5,957,898	09/99	Jepson et al.			

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85	135.	5,967,490	10/19/90	Pike			
	136.	6,019,748	02/01/00	Lopez			
	137.	6,113,068	09/05/00	Ryan			
	138.	6,132,404	10/17/00	Lopez			
	139.	6,171,287	01/01	Lynn et al.			
	140.	6,245,048	06/12/01	Fangrow, Jr. et al.			
	141.	6,325,782	12/04/01	Lopez			
✓	142.	6,428,520	08/06/02	Lopez et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
85	143.	1,105,959	7/28/81	Canada				
	144.	0 114 677	8/1/84	Europe				
	145.	0 237 321	3/10/87	Europe				
	146.	0 240 590	4/7/87	Europe				
	147.	0 309 771	3/9/88	Europe				
	148.	0 367 549	10/31/89	Europe				
	149.	0 399 119	7/27/89	Europe				
	150.	0 438 909	12/21/90	Europe				
	151.	0 446 463	12/18/90	Europe				
	152.	84 25 197.2	10/31/85	Germany				
	153.	855 319	9/11/52	Germany				
	154.	DE 37 40 269 A1	08/01/89	Germany				
	155.	GB 2 034 185 A	08/04/80	Sweden				
	156.	1,435,244	04/07/88	Japan				
✓	157.	2 439 022	05/16/80	France				

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							YES	NO
B5	158.	87-3257	04/18/90	Korea				
	159.	310805	09/3/01	Norway				
	160.	2154462	08/26/95	Russian				
	161.	WO 86/01712	03/27/86	PCT				
	162.	WO 86/03416	08/19/86	PCT				
	163.	WO 93/11828	06/24/93	PCT				
	164.	WO 97/21483	08/19/97	PCT				
	165.	WO 97/21464	08/19/97	PCT				
	166.	WO 88/26835	08/25/88	PCT				
V	167.	WO 99/58186	11/18/99	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	

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